

Abstract

- 5 In a reactor for the catalytic oxidation of ammonia to form nitrogen oxides which has a noble metal gauze catalyst and a heat exchanger in that order in the direction of flow, a catalyst for the decomposition of N_2O is located between the noble metal gauze catalyst and the heat exchanger.
- 10 In a process for the catalytic decomposition of N_2O in a gas mixture obtained in the preparation of nitric acid by catalytic oxidation of ammonia, where the N_2O is decomposed catalytically over a catalyst for the decomposition of N_2O , the hot gas mixture obtained from the catalytic oxidation of ammonia is brought into contact with the catalyst for the decomposition of N_2O prior to subsequent cooling.

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